WHAT IS CLAIMED IS:

1. A system for clinical trial simulation, comprising:

an interface having a fixed form module and a free form module, the interface configured to receive information that describes a trial protocol for a clinical trial simulation;

a translator having a protocol parser and a code generator, the protocol parser configured to parse the trial protocol, the code generator configured to generate source code in a general purpose programming language;

a compiler having a code parser and a machine code generator, the compiler configured to compile the generated source code into an executable program; and

a controller communicatively coupled with the interface, the translator, and the compiler, the controller configured to run the executable program.

2. The system of claim 1, wherein the fixed form module is configured to receive trail protocol information conforming to a structured format.

3. The system of claim 2, wherein the free form module is configured to receive trial protocol information conforming to a trial design language.

4. The system of claim 1, wherein the trial protocol comprises a plurality of schedules.

5. The system of claim 4, wherein the plurality of schedules comprises a dosing schedule.

6. The system of claim 4, wherein the plurality of schedules comprises an observation schedule.

7. The system of claim 6, wherein the executable program comprises a plurality of programmable state machines.

8. The system of claim 7, wherein each state machine corresponds to a discrete one of the plurality of schedules.

9. A method for clinical trial simulation, comprising:

receiving trial protocol information that describes a clinical trial simulation;

arranging the trial protocol information into a plurality of schedules;

translating the plurality of schedules into a general purpose, high level programming language;

compiling the translated plurality of schedules into an executable program; and

executing the program as part of the clinical trial simulation.

10. The method of claim 9, wherein the receiving step comprises:

receiving trial protocol information that conforms to a structured format; and

receiving trial protocol information that conforms to a trial design language.

11. The method of claim 9, wherein the plurality of schedules comprises a dosing schedule.

12. The method of claim 9, wherein the plurality of schedules comprises an observation schedule.

13. The method of claim 9, wherein the executable program comprises a plurality of state machines, each state machine corresponding to a discrete one of the plurality of schedules.

14. A computer readable medium having stored thereon one or more sequences of instructions for causing one or more microprocessors to perform the steps for simulating a clinical trail, the steps comprising:

receiving trial protocol information that describes a clinical trial simulation;

arranging the trial protocol information into a plurality of schedules;

translating the plurality of schedules into a general purpose, high level programming language;

compiling the translated plurality of schedules into an executable program; and

executing the program as part of the clinical trial simulation.

15. The computer readable medium of claim 14, wherein the receiving step comprises:

receiving trial protocol information that conforms to a structured format; and

receiving trial protocol information that conforms to a trial design language.

16. The computer readable medium of claim 14, wherein the plurality of schedules comprises a dosing schedule.

17. The computer readable medium of claim 14, wherein the plurality of schedules comprises an observation schedule.

18. The computer readable medium of claim 14, wherein the executable program comprises a plurality of state machines, each state machine corresponding to a discrete one of the plurality of schedules.

19. A system comprising a microprocessor, a persistent storage area, a volatile storage area and a communication means, the system including an execution area configured to simulate a clinical trial by performing the following steps:

receiving trial protocol information that describes a clinical trial simulation;

arranging the trial protocol information into a plurality of schedules, the plurality of schedules comprising a dosing schedule and an observation schedule;

translating each of the plurality of schedules into a general purpose, high level programming language;

compiling the translated schedules into an executable program, the executable program comprising a plurality of programmable state machines, each state machine corresponding to a discrete one of the plurality of schedules; and

executing the program as part of the clinical trial simulation.